Figure 1: Genome Threader output for INSP163 polypeptide sequence (SEQ ID NO: 30)

	Alignment	La Layer v. L. J. J. L. J. L. J. L. J. L. J. J. L. J. L. J. J. J. L. J. J. J. L. J.								
	(A)	116	115	114	33	128	129	121	119	131
	To Po for Targe	129	121	66	57	146	146	141	%	149
	From Pos									:
		<u>.</u> E	£.	8	8	.გ	82	8	7	8
	E for	08 18	300	300	519	299	500	533	301	301
	Prom Pos for for Joseph	187	187	187	8	182	8	183	60 60	182
	derice	T.		. 		, 				
	%Confidence	96	96	35	ĈO CO	2 8	₩.	69	22	89
Scores	Neural Net Store	0.983	0.983				_		ST.	
		. 60 <u> </u>	6	10.977	0.97	0.965	0.36	0.937	60	0.933
	Solvation Energy	4.34	-2.65	3.13	2.53	1.68	85	3.51	7.	-3.18
	Pairwise	-155.89.	-105.30	10	72	-94.33	\$6	43.14	i R	=
9	T Par	Ή	+	-9.01	Ģ	`\$ 	6	4	7	-7.91
1	%Oner Pairwise Set Aligned Energy	37.7	37.7	37.7	6	39.1	1.65	38.7	39,4	39.7
	%Struct Aligned		i .,.			1				: " '
	8 A	9.8 75.0	4 728	2 70.6	8.2 29.7	3 82.4	821.0	9.0 77.8	6,8 75,4	5.3 80.5
D D	Raw Align %	13	H	20.2	8	20.3		13.	16,	15.
0	S & B	96		,	73	. F	89	\$		09_
Genome Threade	Norm Align Score	67.63	65.86	51.74	45.38	42.14	39.14	34.25	32.56	31.11
		-					·			
Š	I I	Selection (align	Selection of the select	Uspen (a) ED	(align	(align		a de la	dignary (align	1dq6aa00 Eopendium (align)
(J	ž	Ţ., ,	′∾	ന	1	γ٠,	. و	<u>~</u>	∞ .	<u>م</u>

Figure 2

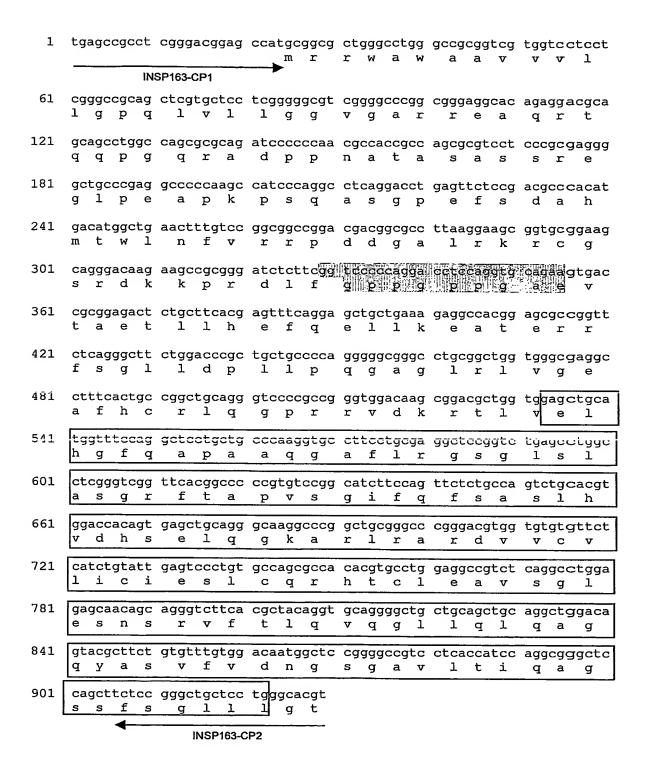


Figure 3

A) INSP163-A

- 1 PDDGALRKRC GSRDKKPRDL FGPPGPPGAE VTAETLLHEF QELLKEATER
- 51 RFSGLLDPLL PQGAGLRLVG EAFHCRLQGP RRVDKRTLVE LHGFQAPAAQ
- 101 GAFLRGSGLS LASGRFTAPV SGIFQFSASL HVDHSELQGK ARLRARDVVC
- 151 VLICIESLCQ RHTCLEAVSG LESNSRVFTL QVQGLLQLQA GQYASVFVDN
- 201 GSGAVLTIQA GSSFSGLLLG T

B) INSP163-B

- 1 KRCGSRDKKP RDLFGPPGPP GAEVTAETLL HEFQELLKEA TERRFSGLLD
- 51 PLLPQGAGLR LVGEAFHCRL QGPRRVDKRT LVELHGFQAP AAQGAFLRGS
- 101 GLSLASGRFT APVSGIFQFS ASLHVDHSEL QGKARLRARD VVCVLICIES
- 151 LCQRHTCLEA VSGLESNSRV FTLQVQGLLQ LQAGQYASVF VDNGSGAVLT
- 201 IQAGSSFSGL LLGT

C) INSP163-C

- 1 CGSRDKKPRD LFGPPGPPGA EVTAETLLHE FQELLKEATE RRFSGLLDPL
- 51 LPQGAGLRLV GEAFHCRLQG PRRVDKRTLV ELHGFQAPAA QGAFLRGSGL
- 101 SLASGRFTAP VSGIFQFSAS LHVDHSELQG KARLRARDVV CVLICIESLC
- 151 QRHTCLEAVS GLESNSRVFT LQVQGLLQLQ AGQYASVFVD NGSGAVLTIQ
- 201 AGSSFSGLLL GT

D) INSP163-D

- 1 FSGLLDPLLP QGAGLRLVGE AFHCRLQGPR RVDKRTLVEL HGFQAPAAQG
- 51 AFLRGSGLSL ASGRFTAPVS GIFQFSASLH VDHSELQGKA RLRARDVVCV
- 101 LICIESLCQR HTCLEAVSGL ESNSRVFTLQ VQGLLQLQAG QYASVFVDNG
- 151 SGAVLTIQAG SSFSGLLLGT

E) INSP163-E

- 1 VDKRTLVELH GFQAPAAQGA FLRGSGLSLA SGRFTAPVSG IFQFSASLHV
- 51 DHSELQGKAR LRARDVVCVL ICIESLCQRH TCLEAVSGLE SNSRVFTLQV
- 101 QGLLQLQAGQ YASVFVDNGS GAVLTIQAGS SFSGLLLGT

F) INSP163-F

- 1 TLVELHGFQA PAAQGAFLRG SGLSLASGRF TAPVSGIFOF SASLHVDHSE
- 51 LQGKARLRAR DVVCVLICIE SLCORHTCLE AVSGLESNSR VFTLOVOGLL
- 101 QLQAGQYASV FVDNGSGAVL TIQAGSSFSG LLLGT

